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BOCK EXPLOITATION

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Kablukov, A. D.; Sochevanov, N. N.; Baranov, E. N.; Bogolyubov, A. N.; Vertepov, G. T.; Grigoryan, S. V.; Mayorova, Ye. A.; Razumovskiv, N. K.; Tulin, V. N.; Yanishevskiv, Ye. M.; comps.

Use of diffusion aureoles of uranium and associated elements in prospecting and surveying for hydrothermal uranium deposits; methodologic handbook (Ispol'so vaniye oreolov rasseyaniya urana i elementov—sputnikov pri poiskakh i razvedke gidrotermel'nykh uranovykh mestorozhdeniy; metodicheskoye rukovodstvo) Moscow, Izd—vo "Nedra", 1964. 194 p. illus., biblio., append. 2350 copies printed. (At head of title: Gosudarstvennyy geologicheskiy komitet SSSR). Managing editor: for the publishing house: F. N. Chumakova; Technical editor: T. M. Shmakova; Proofreader: A. A. Sivakova

TOPIC TAGS: geochemical prospecting, hydrothermal uranium deposit, primary uranium diffusion aureole, radiometric anomaly, secondary uranium diffusion aureole, uranium ore deposit

PURPOSE AND COVERAGE: The purpose of this handbook is to describe the laws governing the distribution of uranium and associated elements in the indigenous rocks

Card 1/3

UDG: 553.495:552.142

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around hydrothermal uranium-ore bodies and in the river deposits above them; to demonstrate the possibility, the role, and the place of geochemical methods in solving such problems; and to describe the results of work on the development of primary and secondary diffusion surecles of uranium and its associated elements. In addition to their own work, the authors used data from A. G. Vetrov, N. A. Voroshilov, V. S. Golinsov, O. D. Gorbunov, M. Ya. Dar, V. M. Konstantinov, M. V. Kutenkov, L. T. Mishin, Ye. A. Sizov, and others, Most of the spectral and luminescent analyses were performed by L. F. Davydova, Yu. T. Donets, B. M. Yeloyev, E. V. Mozolevskaya, and R. V. Timofeyeva.

TABLE OF. CONTENTS:

Foreword (A. P. Solovov) = = 3
Intsoduction = = 6
Ch. I. Ore bodies and primary aureoles of hydrothermal uranium deposits = = 9
Ch. II. Secondary aureoles and diffusion fluxes = = 49
Ch. III. Kethodology and technique of field and laboratory research = = 78
Ch. IV. Application of geochemical methods in prospecting for hidden are bodies = = 119

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BOGOLYUBOV, A.N. (Kiyev)

Development of the science of machinery during the first half of the 19th century. Vop.ist.est.i tekh. no.10:138-141 '60.
(MIRA 14:3)

(Mechanical engineering)

BOGOLYUBOV, A.N. (Kiyev)

Fundamentals of technology in L. Euler's works. Vop. ist. est.
i tekh. no.13:124-129 '62. (MIRA 16:5)

(Technology)

BOGOLYUBOVA, G.F.; BOGOLYUBOV, A.N.

Some characteristics of the distribution of ore bodies in the phlogopite zones of the Aldan Plateau based on combined geological and geographical surveying data and problems of prospecting for blind mica-bearing zones. Zakonom. razm. polezn. iskop. 6:403-419 162. (MIRA 16:6)

GARAGULYA, L.S.; TRUSH, N.I.; BOGOLYUBOV, A.N.

Using geophysical methods for surveying frozen ground dragging areas in the northern Yenisey Range region. Merzl. issl. no.3:44-55 '63. "(MIRA 17:6)

Accumulation development.	cof uranium in eliferial seufments Vororudogeoffizo reol/86/99 - 164.	in the areas of greatite
	1	(urus Toga)

SOCHEVANOV, N.N.; KABLUKOV, A.D.; BARANOV, E.N.; BOGOLYUBOV, A.N.; VYRTEPOV. G.I.; GRIGORYAN, S.V.; MAYOROVA, Ye.A.; RAZUMOVSKIY, N K.; TULIN, V.N.; YANISHEVSKIY, Ye.M.; SOLOVOV, A.P., red.

[Using dispersion halos and accompanying elements in prospecting for hydrothermal uranium deposits; methodological handbook] Ispol'zovanie oreolov rasseianiia urana i elementov-sputnikov pri poiskakh i razvedke gidrotermal'nykh uranovykh mestorozhdenii; metodicheskoe rukovodstvo. Moskva, Nedra, 1964. 194 p. (MIRA 17:9)

1. Russia (1923- U.S.S.R.) Geologicheskiy komitet.

BOGOLYUBOV, Aleksey Nikolayevich; SHTOKALO, I.Z., akademik, otv. red.; ORLIK, Ye.L., red.

[History of mechanical engineering] Istoriia mekhaniki mashin. Kiev, Naukovadumka, 1964. 460 p. (MIRA 17:12)

1. Akademiya nauk Ukr.SSR (for Shtokalo).

BOGOLYUBOV, A.N.; KUNITSYNA, R.V.; SOCHEVANOV, R.N.

Using combined geophysical methods during prespecting for mineral waters in Dzhetyoguz. Sov. geol. 7 no.10:141-150 0 '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut razvedochney geofiziki.

SHTOKALO, I.Z.; KALUZHNIN, L.A.; BLAGOVESHCHENSKIY, Yu.V.; BOGOLYUBOV, A.N.

Vladimir Petrovich Vel'min, 1885-; on his 80th birthday.

Ukt. mat. zhur. 17 no.5:137-138 '65.

(MIRA 18:12)

BOGOLYUBOV, A.P.

We struggle to save each kw. Elek.1 tepl.tiaga 4 no.1:6-7
Ja '60. (MIRA 13:4)

1. Nachal'nik remontno-revisionnogo tsekha Kurganskogo uchastka energo-snabzheniya Yuzhno-Ural'skoy dorogi.
(Electric railroads--Cost of operation)

ACCESSION NR: APSO14862

UR/CO41/65/017/003/CC03/0015

A THOR: Bogolyubov, N. N. (Moscow)

TITLE: Calculation of free energy for molecular systems

SOUFCE: Ukrainskiy matematicheskiy zhurnal, v. 17, no. 3, 1965, 3-15

TOPIC TAGS: semiconductor research, semiconductor, Hamilton equation, solid state, solid state physics, free energy

ASTRACT: The use of hamiltonian models with a general mathematical deficition of the nucleus is studied. The general nucleus deficition is given as

VALUE - LAGO-LAGO,

Where S is a fixed value, and \(\lambda \lamb

"APPROVED FOR RELEASE: 06/09/2000

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$$\nabla^{\frac{1}{p}} \sum_{ij} |T_i, \lambda_i(j)| \leq c_p$$

$$\frac{1}{V} \sum_{ij} |T_i \cdot \lambda_i(j)| \leq \varepsilon_0$$

$$\frac{1}{V} \sum_{ij} |\lambda_i(j)| \leq \varepsilon_0 \quad (1 < \alpha < \delta)R$$

The work of other researchers who used various nucleus descriptors (factorable forms, harmonics, etc) in conjunction with Hamiltonians is reviewed. Dec fundamental deficiencies were noted in past work: either the nuclear rough was restricted, or the computational task involved was very cumpersome. The computational tonian used by the author is of the form

$$H = T - 2V \sum_{i=1}^{\infty} J_i \cdot J_i^*$$

$$T = \sum_{ij} T_j \cdot a_j^* a_j^* \qquad J_a = \frac{1}{2V} \sum_{ij} \lambda_a(i) a_j^* a_j^*$$

In this model a_1^+ and a_2^+ are Fermi amplitudes, and $T_1 = \frac{r^2}{2\pi}$ where is the Cord 2/k

L 58959-65.

ACCESSION NR: AP5011.862

$$\begin{aligned} |J_{r}| \leq K_{0}, \\ |J_{a}| \leq K_{1}, & |TJ_{b} - J_{b}T| \leq K_{5}, \\ |J_{a}^{+}J_{b} - J_{b}J_{a}^{+}| \leq \frac{K_{2}}{V}, & |J_{a}, J_{b} - J_{b}J_{a}| \leq \frac{K_{5}}{V}, \end{aligned}$$

where K_0 , K_1 , K_2 , and K_3 are certain constants for $V \longrightarrow \infty$, f_T is the free energy equation

$$I_H = -\frac{1}{V} \theta \ln \operatorname{Sp} e^{-\frac{H}{\delta}},$$

the author demonstrates how the difference $(f_{H_0} - f_H)$ goes to zero as $V \longrightarrow \infty$.

$$H^0 = T - 2V \sum_{1 \le \alpha \le s} (C_{\alpha} \cdot J_{\alpha}^+ + C_{\alpha}^* J_{\alpha}^-) + 2V \sum_{1 \le \alpha \le s} |C_{\alpha}|^2$$

Following the mathematical proof and discussion are certain examples wherein specific cases of the general nucleus model are expanded, Orig. art. has: 38 equations.

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ASSOCIATION: none			0
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CBOGOLYUBOV, A.P.

Experience in the use of ET and EN relays at sectionalizing points. Elek. i tepl. tiaga 4 no.11:16 N '60. (MIRA 13:12)

1. Nachal nik remontno-revisionnogo tsekha Kurganskogo uchastka energesnabsheniya Tuzhno-Ural skoy dorogi. (Electric railroads-Equipment and supplies) (Electric relays)

BOGOLYUBOV, A.P.; ARTYUSHIN, N.A., starshiy elektromekhanik

How we eliminated the malfunctioning of the sectional cutoff drives. Elek.i tepl.tiaga 6 no.2:9-10 F '62. (MIRA 15:2)

1. Nachal'nik remontno-revisionnyy tsekh Kurganskogo uchastka energosnabaheniya (for Bogolyubov). 2. Remontno-revisionnyy tsekh Kurganskogo uchastka energosnabzheniya (for Artyushin).

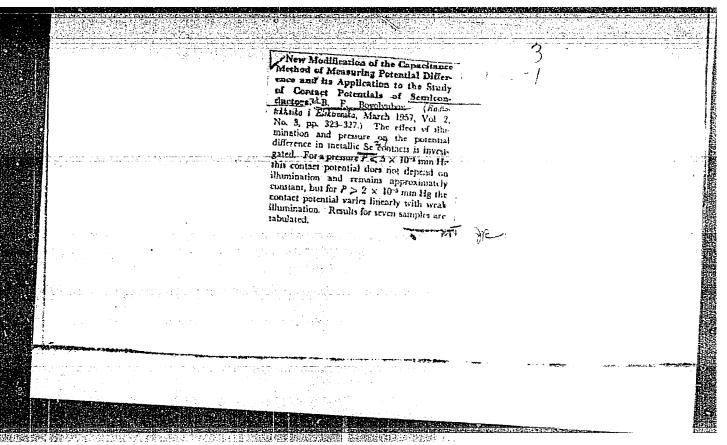
KUZNETSOV, K.F.; BOGOLYUBOV, A.S.; KUROCHKIN, S.S.

Transistorized logic elements for electronic apparatus. Nauch.-tekh. sbor.Gos.izd-va lit. v obl. atom. nauki i tekh. no.4:7-15 '62.

Transistorized matching and shaping elements for electronic apparatus. (MIRA 16:10)

KUZNETSOV, K.F.; ABUZINA, I.N.; BOGOLYUBOV, A.S.; VOLKOVA, R.G.

Design and analysis of transistorized triggering circuits. Nauch.tekh.sbor.Gos.izd-va lit. v obl. atom. nauki i tekh. no.4:44-57 62. (MIRA 16:10)



BOGOLYUBOV, B. N., Engineer

Cand. Jech. Sci.

"Investigation of Certain Problems of the Theory and Operation of Grabbing Cranes." Sub 27 Jun 47. Moscow Order of the Labor Red Banner Electromechanical Inst of Railroad Engineers imeni F. E. Dzerzhinskiy

Dissertations presented for degrees in science and engineering in Moscow in 1947

so: Sum No. 457; 18 Apr 55

Futevyye i stroitel nyye mashiny.

Moscow, 1951
Vol. -

A textbook for the railroad transport schools, dealing with the construction, use, and repair of basic machines and equipment used on tracks in railroad construction; published as a government railroad transport edition. (For Hollings, See ID Card).

- 1. POGOLYUBOV, B. N.
- 2. USSR (600)
- 4. Loading and Unloading
- 7. Mechanics of bulk cargo. R. L. Zenkov. Reviewed by B. N. Bogolyubov. Sov.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

BOGOLYUBOV, B.N.

TOIMAZOV, Aleksandr Fedorovich; BOGOLYUBOV, B.W., kand, tekhn, nank, red.; VERIMA, G.P., tekhn, red.;

[Manual for the operator of electric ballast machinery] Posobie mekhaniku elektroballastera. Moskva, Gos. transp. shel-dor. isd-vo. 1958. 153 p. (NIRA 11:7)

(Ballast (Railroads))

BOGOLYLBOV, B., inzhener-polkovnik, dotsent, kand. tekhn. nauk; MALYGIN, A., inzhener-mayor

The high-speed trenching machine is becoming more reliable.

Tekh. i vooruzh. no.3:63-64 Mr 164. (MIRA 17:8)

[Purability of excavating and road machinery] Dolgovechnost! zemlerotnykh i dorozhnykh mashin. Moskva, Mashinostroenie, 1964. 223 p. (MIRA 17:10)

BOGOLYUBOV, B.N., kand. tekhn. nauk; MALYGII, A.A., kand. tekhn. nauk

Wear of road-machinery parts and its effect on their durability.

Stroi. i dor. mash. 10 no.1:12-14 Ja 165 (MIRA 18:2)

BOGOLYUBOV, 3.N., kand. tekhn. nauk, dotsent; MALYGIN, A.A., kand. tekhn. nauk
Investigating the wear resistance of built-up alloys subjected
to abrasive rolling friction. Vest. mashinostr. 45 no.1:42(MIRA 18:3)

BOGOLYUBOV, Boris Petrovich [decensed]; GRACHEV, Fedor Grigor'yevich; POKROVSKIY, M.A., kand. tekhn. nauk, retsenzent;

DEMAND

1964

[Selective mining of complex ore deposits] Razdel'naia razrabotka mestorozhdenii slozhnogo sostava. Moskva, Izdv-vo
"Nedra," 1964. 166 p. (MIRA 17:8)

[BOCOLYUBOV, B.P., prof., doktor tekhn.nauk [deceased]; ASTAF'YEV, Yu.P., kand. tekhn.nauk

Utilization of underground workings in strip mines. Gor.zhur. no.3: - 14-19 Mr 165. (MIRA 18:5)

EWP(k)/EWF(m)/EWP(t)/ETI ACC NRI IJP(c) AR6033107 JD/HW SOURCE CODE: UR/0137/66/000/007/D043/D043 AUTHOR: Bogolyubov, G. K.; Gol'dfarb, V. M.; Donskoy, A. V.; Kostygov, A. S.; Stepanov, A. V. TITLE: Producing thin-walled flattened sheet pipe (radiator strip) directly from 32 SOURCE: Ref. zh. Metallurgiya, Abs. 7D316 REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, no. 365, TOPIC TAGS: pipe, metal drawing, radiator pipe, flattened pipe ABSTRACT: Metal drawing for radiator strip has been carried out on a laboratory unit. The strip was drawn from A Mts alloy. The type of equipment and some technological problems were developed and solved for producing 4-, 6- and 10channel strip with a 0.3-1.0-mm gage. The production technology for a 13 channel strip is described. An experimental batch (~300 m) of radiator strip for two radiators of a tractor radiator was produced and analyzed. Semicontinuous and continuous units were designed for producing thin-walled flattened sheet pipes <u>Card</u> 1/2 UDC: 621.774.21

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BOGOLYUBOV, G.M.; RAZUMOVA, N.A.; PETROV, A.A.

Synthesis of phospholine and phospholidine, phosphorus-containing heterocycles. Zhur.ob.khim. 33 no.7:2419-2420 Jl '63.

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Phospholine)

2 1

22660-65 EPF(c)/EMP(j)/EMT(m)/T PC-4/Pr-4 RM/MK ACCESSION NR: AT5002113 S/0000/64/000/000/0075/0079

AUTHOR: Sokolovskiy, M.A.; Zavlin, P.M.; Medenikova, N. Ye.; Bogolyubov, G.M. Gefter, Ye. L.; Moshkin, P.A.

TITLE: Phosphorus-containing monomers with different functional groups

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 75-79

TOPIC TAGS: organophosphorus compound, polycondensation, vinylphosphinic acid.

ABSTRACT: The purpose of this investigation was the preparation of phosphorus-containing monomers with functional groups capable of combining the reactions of polycondensation and polymerization. The investigation dealt with certain derivatives of vinylphospi injo acid, which, because of their availability could become of practical interest. From the point of view of the synthesis of phosphorus-containing polymeric compounds (polyesters compounds of the polyamide type), new phosphorus-containing analogs of terephthalic acid with a P-C bond were synthesized. By reacting the di-(S-chloroethyl) ester of viny plans phinic acid with amino-alcohols and amino-carboxylic acids, new phosphorus containing monomers were obtained which contain different functional groups. These functional groups

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ACCESSION NR; AT5002113

were secondary amine, hydroxyl, and carboxyl groups, which are capable of condensation, as well as the vinyl group which facilitates polymerization. Orig. art. has: 16 formulas.

ASSOCIATION: None

SUBMITTED: 30Jul64

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SUB CODE: OC, GC

NO REF SOV: 007

OTHER: 000

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BOGOLYUBOV, G.M.; PETROV, A.A.

Synthesis of sulfides of tertiary acetylenic phosphines. Zhur. ob. khim. 35 no.4:704-707 Ap '65.

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

BOGOLYUBOV, G.M.

Conditions for the formation of the P-P bond in the action of Grignard reagents on thiophosphoryl halides. Zhur. ob. khim.

(MIRA 18:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

BOGOLYUBOV, G.M.; PETROV, A.A.

Interaction between Iozich's reagent and phosphorus thiohalides, Zhur. ob. khim. 35 no.6:988-992 Je 165. (MIRA 18:0)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

EWT(m)/EWP(j) ACC NR. AP6016687 SOURCE CODE: AUTHOR; Bogolyubov, G. M.; Mingaleva, K. S.; Petrov, A. A. ORG: Leningrad Technological Institute im. Lensovet (Leningradskiy tekhnologicheskiy TITIE: Dipole moments of certain acetylenic derivatives of phosphorus SOURCE: Zhurnal obshchey khimii, v. 35, no. 9, 1965, 1566-1570 TOPIC TAGS: dipole moment, intramolecular mechanics, UV spectrum, sulfide, halide, The intramolecular electronic interactions in the molecules of ABSTRACT sulfides of tertiary alpha, beta-unsaturated phosphines were studied by determining their dipole moments and ultraviolet spectra. The dipole moments were obtained for the phosphine sulfides, thiophosphroyl halides, and halides of tricoordinated phosphorus and correlated with the Taft inductive constants. The increase in the dipole moments of sulfides of tertiary acetylenic phosphines with increasing sum of the inductive constants of the substituents on the phosphorus atom may be explained by a positive electronic effect, directed identically with the vector of the total moment of the molecule. The dipole moments of halides of tricoordinated phosphorus decrease with increasing electron-attracting ability of the substituents, analogously to the triphosphoryl UDC: 547.341+537.226.1

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L 04848-67 EWP(j)/EWI(m) ACC NR. AP7000241 SOURCE CODE: UR/0079/66/036/004/0724/0727 AUTHOR: Bogolyubov, G. M.; Petrov, A. A. 22 B ORG: Leningrad Technological Institute im. Lensovet (Leningradskiy tekhnologicheskiy "Sulfides of Tertiary Styrylphosphines" Moscow, Zhurnal Obshchey Khimii, Vol 36, No 4, 1966, pp 724-727 The reaction of thiophosphoryl halides with organomagnesium compounds in ether or tetrahydrofuran yielded sulfides of tertiary phosphines, as well as diphosphine disulfide, containing styryl substituents at the phosphorus atom. The reactions of styryl magnesium bromide both with thiophosphoryl trichloride and with styrylthiophosphoryl dichloride yielded only tristyrylphosphine sulfide. The corresponding tertiary phosphine sulfides were also obtained by reaction of styryl magnesium bromide with phenylthiophosphoryl dichloride Zdistyrylphonylphosphine sulfide and with dimethylthiophosphoryl Cdistyryiphenyiphosphine sulfide/ and with almethylthrophosphor chloride /dimethylstyrylphosphine sulfide/, and of styrylthio-phosphoryl dichloride with phenylethynyl magnesium bromide /styryldi(phenylethynyl)phosphine sulfide/ and with phenyl Magnesium bromide [styryldiphenylphosphine sulfide]. Two_products were obtained in UDC: 547.341+541.67 0923

ACC NR: AP7000241

the reaction of styry1thiophosphoryl dichloride with methyl magnesium bromide in ether: 1,2-dimethyl-1,2-distyryldiphosphine disulfide, and dimethylstyrylphosphine sulfide. The physical constants, nuclear magnetic resonance, infrared, and ultraviolet spectra of the products were studied. Orig. art. has: 2 figures and 2 tables.

TOPIC TACS: organomagnesium compound, phosphinic acid, styrene

SUB CODE: 07 / SUBM DATE: 03 Feb 65 / ORIG REF: 002 / OTH REF: 003

ACC NR: AP7003668	
AUTHOR: Bogolyubov, G. M.; Petrov, A. A. ORG: Leningrad Technological Institute im. Lensovet (Leningradeki:	71505/1505
SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1505 TOPIC TAGS: alkylphosphine, phosphorus, sodium, ammonia ABSTRACT: Compounds with a P-P bond were produced by the reaction of red phosphorus with sodium and hydrocarbon halides in liquid ammonia. Tetramethylphosphine disulfide, tetraethyldiphosphines, and also tetramethyldiphosphine disulfide, triethylphosphine disulfide, 1,2-dimethyl-1,2-sulfide, methylethylbenzylphosphine sulfide, and other compounds were prepared by this method. Orig. art. has: 3 formulas.	v]
SUB CODE: 07 / SUBM DATE: 20Apr66 / ORIG REF: 002 / OTH REF: 001	
Card 1/1 jb	
UDC: 547.241 0426	0202

(MIRA 16:7)

BOGOLYUBOV, G.V.; RUBTSOV, V.K.

Hydraulic device for slow motion. Prib. i tekh. eksp. 7 no.3:
197 My-Je '62.

1. Moskovskiy inzhenerno-ekonomicheskiy institut.
(Oil hydraulic machinery)

5/120/62/000/003/047/048 E194/E455

AUTHORS: Bogolyubov, G.V., Rubtsov, V.K. TITLE:

 Λ hydraulic device for slow displacement

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 197

Steady movements at slow rates between some fractions of a millimetre and millimetres/second are required in a number of processes, such as growing single crystals and zonal melting. A suitably uniform movement has been obtained with a piston and The object that is to be moved is attached to the weight-loaded rod of a piston. Both ends of its cylinder are closed and are connected by an external pipe with control valve. Adjustment of the valve regulates the rate of flow from the lower to the upper part of the cylinder and hence the rate of travel. One device that has been constructed has a rate of travel between . 10 and 200 mm/min with a stroke of 240 mm. There are 2 figures.

ASSOCIATION: Moskovskiy inzhenerno-ekonomicheskiy institut (Moscow Institute of Engineering-Economics) SUBMITTED:

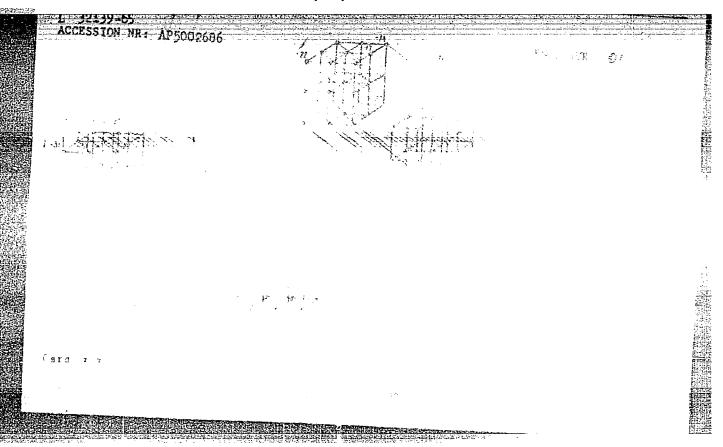
September 27, 1961 Card 1/1

BOGOLUBOV, I. N.

"Ternary threshold (majority decision) elements and problems of their synthesis" report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

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04403-67 EWI(d)/EWP(1)ACC NR: AT6019738 IJP(c)BB/GG SOURCE CODE: UR/3192/65/000/011/0005/0017 AUTHOR: Bogolyubov, I. N. ORG: none TITLE: The synthesis of three-valued logic functions using threshold elements SOURCE: Akademiya nauk Latviyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Avtomatika i vychislitel'naya tekhnika, no. 11, 1965, 5-17 TOPIC TAGS: threshold element, logic circuit, function theory ABSTRACT: The author investigates the methods for the establishment of circuits realizing three-valued logic functions (which take the values of {-1, 0, 1}) in conjunction with the threevalued threshold functions $f(x) = sign_3(\sum_{i=1}^n \xi_i x_i - \tau_i)$ threshold elements and the proposed approaches carry out the synthesis according to the bases, disjunctive normal form implicants, and elimination of variables. Examples presented indicate that the special feature of the synthesis of three-valued logic functions using threshold elements is their pattern of behavior. Unfortunately, this does not ensure the optimal quality of the <u>Card</u> 1/2 UDC: 62-507

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SOURCE CODE: UR/0000/65/000/000/0080/0125

AUTHOR: Bogolyubov, I. N.; Ovsiyevich, B. L.; Rozenblyum, L. Ya.

ORG: none

TITLE: Synthesis of threshold and majority logic circuits 160

SOURCE: AN SSSR. Institut problem peredachi informatsii. Seti peredachi informatsii i ikh avtomatizatsiya (Circuits for information transfer and their automation), Moscow, Izd-vo

TOPIC TAGS: logic design, computer logic, switching theory, circuit theory, logic element

ABSTRACT: The authors present a systematic survey of threshold and majority logic and in addition supply some original results. The threshold elements are defined. The necessary and sufficient criteria for the realization of a threshold logic function with arbitrary number of variables are derived by considering the results of a two-person zero-sum game. Simplified methods of function realization are presented where the realizability conditions are necessary but not necessarily sufficient. Later, sufficient conditions are found for a limited number of variables. The synthesis of linear-input threshold circuits are analyzed by reducing the

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problem of finding the weights of inputs and the threshold level to the problem of linear programming. Simplification methods for functions of n-variables are presented. The synthesis of a ternary threshold circuit is given as an example. The majority elements are defined. The synthesis of 3 and 5 input elements are stressed. It is shown how the number of inputs of functions by minimizing the remainder of circuits, increasing their speed, and reducing their cost are shown. The possible trade-offs between these factors are analyzed. The realization of majority logic elements by ternary logic elements is considered. Orig. art. has: 65

SUB CODE: 09/ SUBM DATE: 04Dec65/ ORIG REF: 012/ OTH REF: 058

Card 2/2

AUTHOR:

Bogolyubov, I. S., Candidate of Technical Sciences

· TITLE:

Initial Phase of Flow Mixing in an Ejector (Nachal'naya faza smesheniya potokov v ezhektore)

PERIODICAL:

Trudy Moskovskogo aviatsionnogo instituta, 1958, 37; Addition of a Supplementary Volume in Jet Apparatus (Priseyedineniye dopolnitel'noy massy v struynykh apparatakh), pp. 5-42 (USSR)

ABSTRACT:

The author states that in establishing the theory of mixing of two flows the following assumptions were made: a) the nature of the flow in the mixing chamber is only slightly affected by the viscosity of gases; b) speed and temperature of the flow of gases are uniformly distributed in both sections of the mixing chamber; c) the flow in the mixing chamber appears to be stable and proceeds without heat exchange with the walls; d) the mixing of gas flows proceeds according to the laws of turbulent mixing; e) pressure is constant at all points of the mixing chamber. The author investigates subsonic flows, but due to the complexity of phenomena occurring in ejectors limits himself to the study

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Initial Phase of Flow Mixing in an Ejector

of the initial phase of the mixing of flows from the moment of their meeting to the moment of absorption of one of the flows. Equations obtained by the author make possible the determination of length of the initial mixing sector with constant pressure and constant profile of the sector. The influence of the ejection and turbulence coefficients may also be evaluated. The author's theoretical work was sufficiently verified experimentally. Experiments were conducted on a plane cross-section model air ejector. The study was restricted to the problems of mechanics and heat transfer in a mixing chamber of a jet flow (flow geometry, distribution of velocities and temperatures). The aims of this study were: 1) to investigate the mixing process of plane-parallel flows in a conduit with walls of a determined profile; 2) to determine the effect of the compressibility factor on the flow mixing process, as compressibility was not taken under consideration in the theory of mixing. The experiment was conducted as follows: Compressed air with presures up to 1.85 atm and temperatures up to 120°C was sent into the central nozzle of the ejector at the rate of 0.5 kg/sec, from the compressor of an aircraft engine (M-105). The second flow was air from the atmosphere, Card 2/4

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Initial Phase of Flow Mixing in an Ejector

regulated by a detachable venturi pipe with a receiver. The walls of the ejector were made of plexiglass to make possible direct observation. The length and profile of the ejector were made according to the theoretical equations. Tests were made at two operating conditions:

1) sonic speed of the primary flow (M = 1, $\frac{P_k}{P_0}$ = 1.85 atm) and 2) subsonic speed of the primary flow (M = 0.8, $\frac{P_m}{P_0}$ = 1.56 atm). Graphic

representation of the results is given. The author considered the increase of thrust of engines as a secondary problem. He discovered, however, in his experiments with an ejector of rectangular cross-section (for discharge of 0.5 kg/sec, pressure ratio. 1.85 atm, and external dimensions of the nozzle admissible for aircrart engines), that the increase of thrust is 25-35 percent of the primary jet. The author arrives at the following conclusions: 1) Equations characterizing the mixing process in the initial sector of a constant-pressure mixing chamber were obtained, among them equations of length and profile of the wall of the mixing chamber. 2) The length I₁ of the initial sector of the mixing chamber depends essentially on the ejection coefficient, and the sector of the mixing chamber depends essentially on the ejection coefficient.

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and on the value of experimental constant a, which characterizes the structure of the turbulent flow of the working gas. The dependence of L on the difference of speeds (ul, u2, m = u1 / u2), and temperatures of flows (T1, T2) is insignificant. 3) The wall profile of the initial sector of the mixing chamber is nearly a straight line, at a small angle to the axis of the ejector. This angle depends entirely on a, m, Tn - 4) The effect of compressibility on the flow mixing process is negligible up to somic (M = 1) velocities. The bibliography consists of 6 references, 3 of them Soviet, 2 German and

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THATE I BOOK EXPLOITATION

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Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Prisoyedineniye dopolnitel'noy massy v struynykh apparatakh; sbornik statey (Mass-Flow Augmentation in Jet Engines; Collection of Articles) Moscow, Oborongiz, 1958. 238 p. (Series: Its: Trudy, vyp. 97) Errate slip inserted. 2,210 copies printed.

Ed. (Title page): A.V. Kvasnikov, Professor; Ed. (Inside book): S.G. Boshenyatov (Deceased); Managing Ed.: A.S. Zaymovskaya, Engineer; Ed. of Publishing House: T.A. Valedinskaya; Tech. Ed.: L.A. Lebedeva.

PURPOSE: This collection of articles is intended for scientific workers at engineering schools and research institutes and also for engineers working in experimental design offices.

COVERAGE: This collection contains abridged dissertations from the Department of Aviation Engine Theory, Faculty No. 2, of the Moskovskiy aviatsionnyy institut (Moscow Aviation Institute)

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Mass-Flow Augmentation in Jet Engines (Cont.) during the period from 1946 to 1953. The articles conside various problems arising in augmenting the mass flow in justification and in utilizing the additional mass flow for increasing thrust of jet engines. References accompany each article No personalities are mentioned. TABLE OF CONTENTS:	er
Bogolyubov, I.S., Candidate of Technical Sciences. Initial Phase of Flow Mixing in an Ejector 1. Introduction 2. Theory of the mixing of flows 3. Experimental investigation of the mixing process of flows in an ejector 4. Conclusions This paper is a theoretical study of the mixing process in an ejector used for mass-flow augmentation in a jet engine. The theory considers the initial phase of the mixing process for the case where the basic flow is subsonic. Fundamental equations are derived which characterize the mixing process in the entrance section of Card 2/12	3 556 37 42

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the mixing chamber and permit the calculation of the length and the profile of the mixing-chamber wall, as well as the effect of the ejection coefficient and the turbulence factor on the mixing. It was found that the length of the initial sections of the mixing chamber depends primarily on the ejection coefficient m and the magnitude of the test constant & which characterize the structure of the turbulent flow of the driving gas. The length of the mixing chamber is essentially independent of the difference in the velocities and temperature of the flows. The profile of the wall of the entrance section is extremely close to a straight line, slightly inclined with respect to the ejector axis. This angle of inclination depends primarily on M , Q , the velocity ratio u_2/u_1 , and the temperature ratio T_2/T_1 . The compressibility of the basic flow has a negligible effect on the mixing process up to sonic velocity. The analytical results are supported by experiments with an air ejector. As an incidental result of the study it was shown that, for a mass flow of the basic jet equal to 0.5 kg/sec and a pressure ratio of 1.85, an increase in thrust equal to 25-35 percent of the thrust of the basic jet could be obtained. Card 3/12

Mass-Flow Augmentation in Jet Engines (Cont.) SOV/3848	
Mikhalev, S.V., Candidate of Technical Sciences. Investigation of the Flow in a Two-Dimensional Nozzle With an Ejector 1. Aerodynamic model of an ejector 2. Plane-parallel ejector (general case) 3. Plane-parallel ejector with rectilinear walls 4. Reactive thrust of a plane-parallel nozzle with an ejector 5. Calculation data 6. Conclusions This paper presents a theoretical investigation of the parameters of a gas flow at the entrance and exit of a nozzle-ejector shroud, including the velocity fields inside and outside the shroud, the pressure distribution at the walls of the shroud, and the thrust of the nozzle and shroud combination. The derivation of the fundamental equations makes use of the methods of internal aerodynamics of an incompressible fluid in combination with potential flows around bodies. The method consists of summing up two elementary flows, the flow in the field of a system of vortices whose distribution is governed by the geometry of the shroud, and the flow of a turbulent submerged jet. It is shown that it is possible to find velocity fields of a two-dimensional turbulent flow inside an ejector shroud with a given	43 44 47 51 59 85
7 46	

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geometry of the walls without taking into consideration dissipation forces (viscosity and thermoconductivity). Comparison of the analytical results with experimental data shows that the properties of the complex flow obtained by the aforementioned theoretical treatment coincide with the properties of the actual flow observed in the ejector; that is, the character of turbulent mixing in an ejector is the same as in a free turbulent submerged jet. The flow in an ejector may thus be regarded as a flow of a submerged jet which is deformed due to the presence of the engine walls whose effect may be theoretically identified with the effect of a system of point vortices where the turbulent-viscosity coefficient is assumed constant in determining the vortex intensity. The actual velocity fields inside and outside the engine differ from the ideal, particularly near the walls, because of the presence of the boundary layer. Corrections for the effect of the boundary layer are given which permit determination of the actual velocities inside the engine. The thrust determined from the analytical equations was found to be in good agreement with experimental Card 5/12

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data. A number of sample calculations are presented.

Kozyukov, A.V., Candidate of Technical Sciences. Increase in a Compound Jet Nozzle With Constant Flow

1. Setup for testing and measurement

2. Test results

Conclusions

87 87 89

This paper presents the results of an experimental study of the relationship between thrust and the geometric para-. meters of nozzles and ejector shrouds. It was found that the thrust increment due to the addition of atmospheric air to the basic jet depends on the ratio of the diameter of the cylindrical part of the shroud and the nozzle and, as shown by the tests, may reach 70 - 85 percent for constant flow. The ejection coefficient A was found to be directly proportional to the diameter of the cylindrical part of the shroud. With large increases of the mass-flow augmentation ratio, a considerably larger increase in thrust was obtained than in the case of small ratios (60-80 percent instead of 2035 percent). Large thrust increases obtained in the experiments suggest the possibility of using the ejector shroud on jet engines at low flight speeds, for example during take-off.

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Mass-Fig. Augmentation in Jet Engines (Cont.) SOV/3848	
Kudrin, O.I., Candidate of Technical Sciences. Pulsating Jet Nozzle with Mass-Flow Augmentation I. Theoretical Investigation 1. Calculation of the thrust of a simple pulsating jet nozzle 2. Energy losses associated with the process of	98 99 99
3. General estimate of the efficiency as a window	104
jet nozzle with addition of atmospheric air 4. Possible processes in a compound jet nozzle 5. Calculation of the process with gradual inflow of supplementary mass	107 121
6. Calculation of the process with expulsion of supplementary mass	125
II. Experimental Investigation 1. Test setup with pulsating combustion	139 144
3. Test setup with a one-cylinder piston engine 4. Conclusions from the experimental investigation	144 170 178 178
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This paper presents a theoretical and experimental study of the effects of adding atmospheric air to pulsating jets. It is shown that the addition of atmospheric air to a pulsating gas jet may lead to a considerable increase in its impulse. The addition of supplementary air mass is not only due to ejection, that is, the parallel addition of air into the driving jet which is associated with mixing, but also to the interaction of separate masses of air added gradually. Two forms of this gradual addition are possible, namely gradual expulsion of additional mass and gradual inflow of air behind the driving jet. The largest increment in thrust (up to 120 percent of the thrust of a single nozzle) was obtained in a compound jet nozzle with an open shroud which includes the three basic forms of the process of mass addition (ejection, expulsion, and gradual inflow of air behind the driving jet). gradual inflow is the basic process which produces a large increment in thrust and determines the character of its variation as a function of the basic parameters of the pulsating flow. The thrust increases obtained in the process with gradual inflow were found to be close to the corresponding calculated values based on the assumption of no losses due to friction or vortex formation. This Card 8/12

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result confirms that the process of gradual inflow involves small energy losses and has efficiencies of 75 percent and The tests also showed that the thrust increases are reduced as the cyclic frequency and the initial rate of pressure drop are increased. For a given frequency the thrust increment increases as the outflow from the central nozzle becomes more unsteady. The experiments also showed that the addition of atmospheric air to the exhaust of a piston engine may increase the exhaust thrust up to 70 percent.

Ovsyannikov, B.V., Candidate of Technical Sciences, and O.I. Kudrin, Candidate of Technical Sciences. Exhaust Jet Nozzle of a Piston

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This brief paper reports the results of tests to determine 189 the thrust increase of the exhaust of a piston engine due to the addition of atmospheric air. It was found that an open ejector shroud at the exhaust exit increased thrust between 50 and 70 percent. The authors consider that

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the use of ejectors on piston engines exhaust pipes is very practical where use can be made of secondary masses of air already entrained by the airplane (such as cooling air for the engine or radiation, etc.) or having small velocity with respect to the mixing chamber.

Shapiro, Ya.G., Candidate of Technical Sciences. Experiment Investigation of a Liquid Ejector	ra T
2. Measurements of velocity fields and many	191 191
mixing chamber 3. Pulsation of velocities in the mixing chamber 4. Energy losses in the mixing chamber 5. Recording the operating characteristics of an ejector 6. Efficiency of the mixing chamber 7. Efficiency of the ejector 8. Determination of the optimum ejector parameters 9. On the length of the mixing chamber 10. On the calculation of the ejector 11. Conclusions	197 200 210 219 224 225 237 230 232
	< 32

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This paper presents the results of an experimental study to determine the optimum parameters of a liquid ejector and the energy losses occurring in it. The paper describes the test setup, measurements of velocity fields, pressures, velocity and pressure pulsations, and energy losses in the mixing chamber. The data are analyzed to study the mixing process and to determine the efficiency of the mixing chamber, the efficiency of the ejector, and the optimum parameters for the ejector. Methods for calculating the ejector parameters are also given. It was found that the presence of large pressure gradients leads to the formation of appreciable velocity pulsations at every point in the mixing zone, producing internal energy losses and losses due to friction along the walls. The losses due to friction were found to be 2 to 3 times as large as the values ordinarily used in calculations. An empirical formula is given for taking these losses into account. At the beginning of the mixing process a pressure drop occurs which is dependent on the ejector parameters and may reach 7 percent of the dynamic pressure of the driving jet. An empirical formula is given for estimating the magnitude of this pressure drop. Card 11/12

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It was also found that equalization of the pressure field occurs in a length 3 to 4 times the diameter of the mixing chamber. The equalization of the velocity field was found to be practically completed in 7 diameters. Thus the length of the mixing chamber of an ejector operating with a diffuser should not be greater than 7 times the diameter. the operation of an ejector was shown to depend basically on the ratio of the velocities in the ejector. A rarid lecrease in efficiency occurred when the velocity ratio deviated from the optimum value. A simple formula is given . or estimating the cptimum velocity ratio.

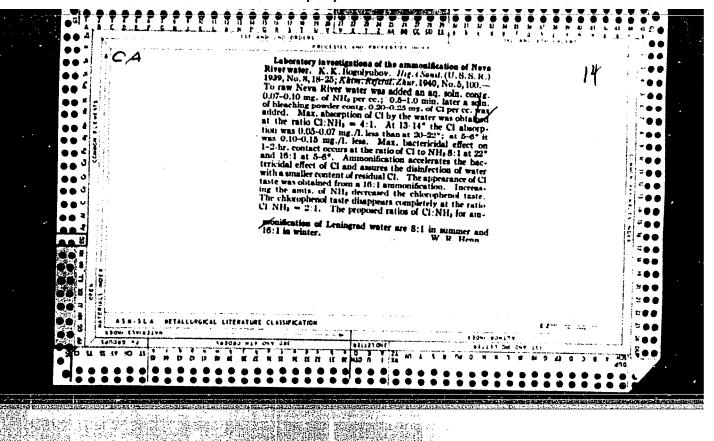
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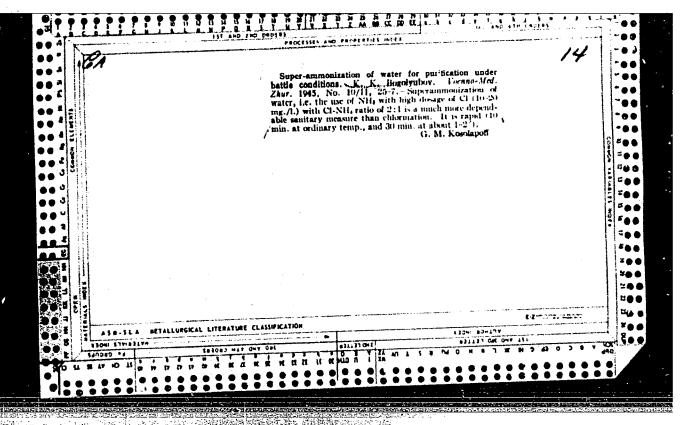
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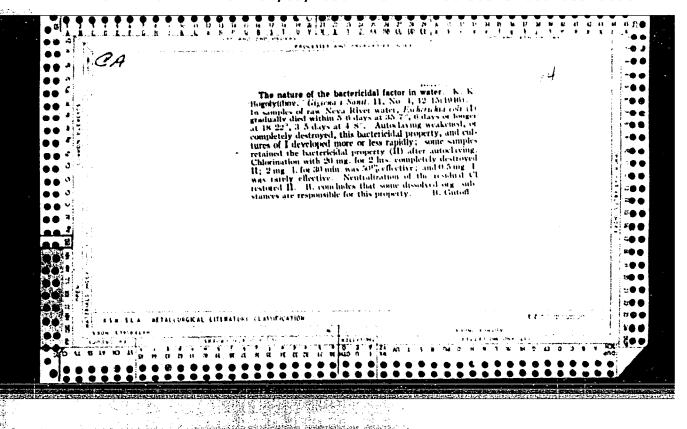
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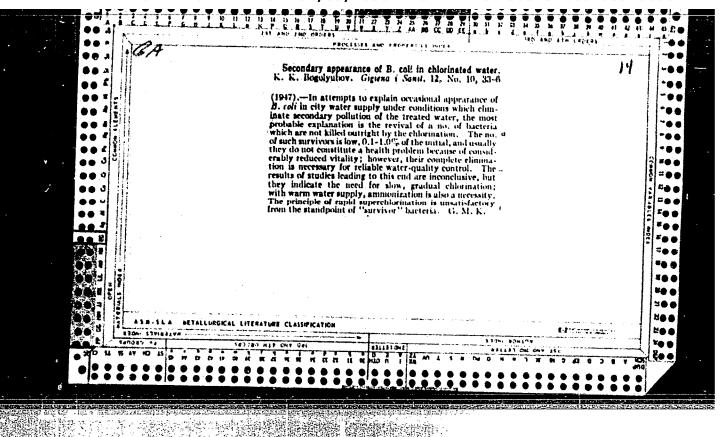


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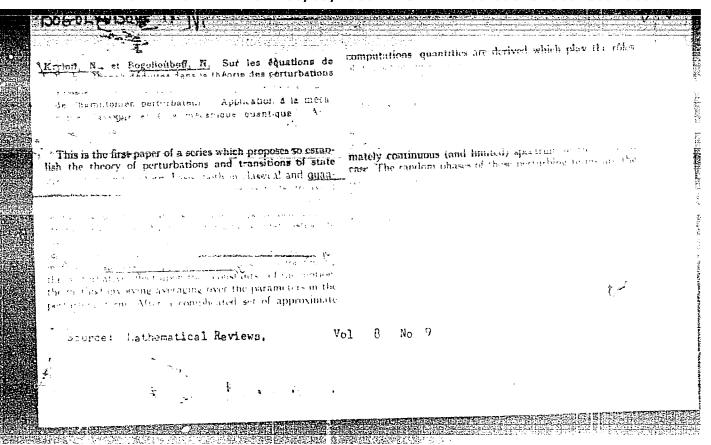
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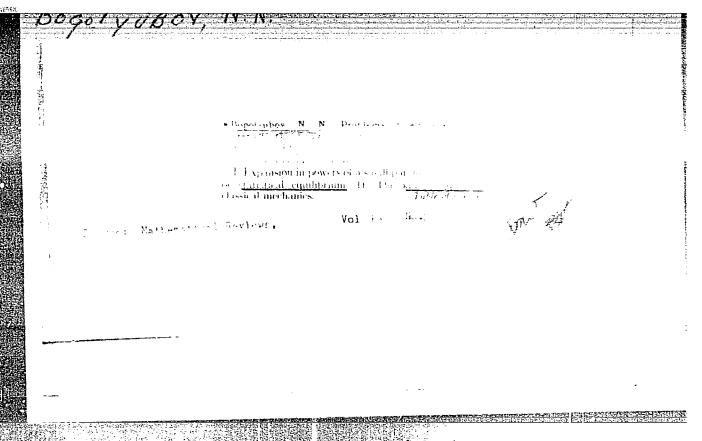
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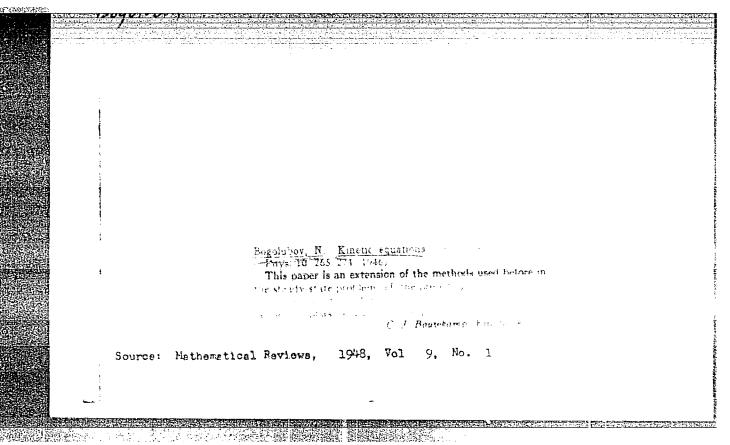
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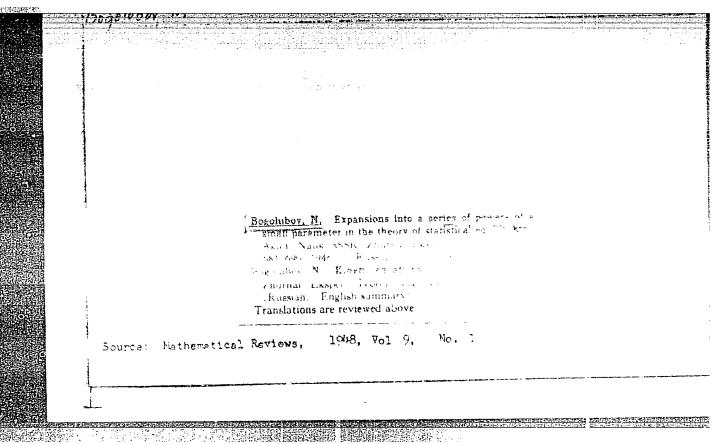
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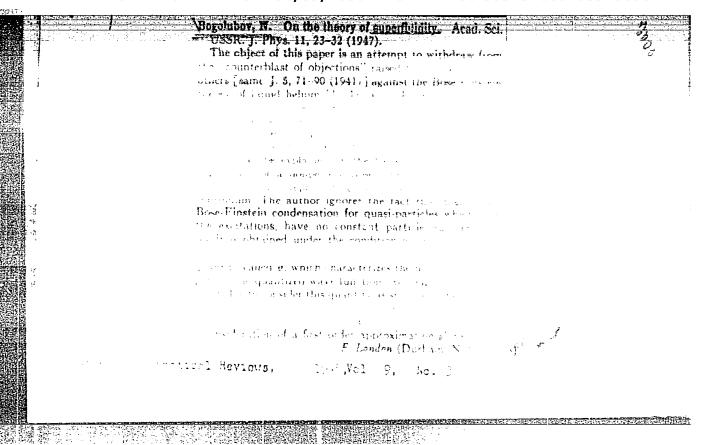
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1321. Energetic Planes of a Non-ideal Bose-Einstein Gas, by N. N. Bogalyubov.

Vestnik Hoskovskogo Universiteta, No. 7, July 1347. 14 p. (In Mussian)

With the help of the method of secondary quantization, the question of the determination of energetic planes of non-ideal Bose-Einstein gas is examined. The results received are used for introducing a series of equations and additions to the molecular theory of super fluids developed by the author of the article.



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o t		Regulyubov, N. H. A contribution to the theory of super- Bogolyubov, N. H. A contribution to the theory of super- Bushir: Buth. Acad. Sci. 11888. Ser. Phys. [Izvestia Bushir: Buth. Acad. Sci. 11888. Ser. Phys. [Izvestia Akad. Nauk SSSR] 11, 77, 90 (1947) (Russian Eng.
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